INDEX OF SUBJECTS

Acid *p*-nitrophenylphosphatase
liver 483
plasma 505
in systemic anaphylaxis 483, 505
tissue 505
Acid phosphatase
activity in copper-loaded liver, rat 471
Acridine orange
nucleolar alterations, production of 323
Adrenal
hyaline droplet and vacuole formation 831
methylandrostenediol effect 831
Alloxan
pretreatment of pancreas as protection against radiation 207
Amyloidosis
glomerulus 869
Anaphylaxis, systemic
Kupffer cell disruption 483, 505
Anitschkow cell
origin and ultrastructure 1063
Antitoxin, polyvalent
effect in staphylococcal infection, kidney 913
Aorta
intima; effect of hypertension 721
mammals and birds, exotic 591
mural thrombi in graft 1013
Artery, carotid
thrombus, mural 681
Artery, coronary
copper-deficient swine 117
Aspergillosis
lung 769
Astatine-211
pituitary tumor 601
Atherogenesis
fibrin and thrombosis 373

Biochemistry
dysgerminoma 639
Sertoli cell lysosomes in seminiferous epithelium, rat 1
Birds, exotic
vasa vasorum, abnormalities 591
Blood-brain barrier
in kernicterus 69
Blood cells
adsorption of cavian leukemia virus 1161
Bovine
tissue mineralization in vitro 621
Brain
ouabain effect on cerebral cortex 573
tumor pressure effect 1093
vascular permeability in kernicterus 69
Breast
fibroadenoma 663
Burkitt's tumor 629
Bursa of Fabricius
Gumboro disease 527

Cadmium chloride
testicular injury 191
Carcinogen
schistosomiasis mansoni, effect on 307
Cardiovascular system
copper-deficient swine 117
Carotid artery
thrombus, mural 681
Cattle
Chediak-Higashi syndrome 553
tissue mineralization in vitro 621
Cerebral cortex
ouabain injection 573
tumor pressure effect 1093
Ceroid
gastrointestinal smooth muscle 287
Chediak-Higashi syndrome
in man, mink, and cattle 553
Chicken
Gumboro disease 527
Children
Chediak-Higashi syndrome 553
Cirrhosis
hepatic cells and collagen in recovery 959
morphologic and functional aspects of recovery 929
Coagulation
endotoxin shock, in rat 61
Copper
deficiency in swine; cardiovascular system effects 117
in liver; acid phosphatase activity 471
Cornea
edema induced by Tween 80 977
Cortex
tumor pressure effect 1093
Cortisone
hepatitis lesions, effect on 163
murine cytomegalovirus infection, effect on 1001

Crotalaria spectabilis
rat lung, effect on 1031
Cytomegalovirus
cortisone effect 1001

Diaphragm
Group A streptococci 351
Diarrhea
EDIM virus infection, infant mouse 39
Diet
cirrhosis 929, 959
Dog
hemorrhagic shock 341
hyperbaric oxygen effect 341
pancreas 207
Dysgerminoma, ovarian
estrogen in 639

Edema
cornea 977
EDIM virus
intestinal epithelium, effect on 39
Electron microscopy
adrenal, rat 831
Anitschkow cell 1063
aortic intima 721
bacteria in Whipple's disease 225
blood-brain barrier in kernicterus 69
cavian viral leukemia 1135
cerebral cortex 573, 1093
dysgerminoma 639
elastic membranes in coronary artery, copper-deficient swine 117
fibroadenoma, mammary 663
glomerulus in renal amyloidosis 869
Gumboro disease 527
hepatitis lesions and cortisone effect 163
intestinal epithelium infected with EDIM virus 39
intestinal mucosa in salmonella infection 137
Kupffer cell in systemic anaphylaxis 483, 505
liver in recovery from cirrhosis 929
lymphoma, murine 629
mural thrombi in aortic grafts 1013
pancreas protected against radiation effects 207
pituitary tumor 601
pox virus, epidermis of monkey 431
renal lesions in rheumatic fever 1045
reovirus pancreatitis 387
Sertoli cell lysosomes in seminiferous epithelium of rat testis 1
skeletal muscle, rabbit, in vitamin E deficiency 815
vena cava, rabbit 789
Endotoxin
hepatic changes 269
Endotoxin, *E. coli*
giant-cell transformation in liver 855
Endotoxin shock
heparin effect, in rat 61
Epidermis
pox disease in monkey 431
Epithelium
intestine infected with EDIM virus 39
Epithelium, seminiferous
Sertoli cell lysosomes 1
Epizootic diarrhea
mouse, infant 39
Escherichia coli
hepatic giant-cell transformation 855
Estrogen
in dysgerminoma 639
Eye
corneal edema 977

Fibrin
in atherogenesis 373
Fibroadenoma
breast 663
Fluid
mechanisms of transportation into corneal tissue 977

Gastric shigellosis 259
Gastrointestinal tract
ceroid in smooth muscle 287
Giant cell
E. coli endotoxin effect 855
Glomerulus
in amyloidosis 869
Glycosaminoglycan
salivary gland tumor 19
Graft
aorta 1013
Granuloma
formation around schistosome eggs 735
inhibition of, around schistosome eggs 757
Guinea pig
intestinal mucosa in salmonella infection 137
viral leukemia 1135, 1153, 1161
Gumboro disease
bursa of Fabricius, spleen, and thymus of chicken 527

Hamster
immunity to homografted lymphoma 1111
lymphoma induction 447
Heart
Anitschkow cell 1063
Group A streptococci 351
myocardial lesions of hemorrhagic shock 341

Hemorrhagic shock
myocardial lesions and hyperbaric oxygen effect 341
Heparin
endotoxin shock, in rat 61
Hepatitis
cortisone effect on hepatocellular and Kupffer-cell lesions 163
Hepatocellular injury
matrix inclusion bodies in mitochondria 101
Hepatocyte
cortisone effect in hepatitis 163
Hepatolenticular degeneration
acid phosphatase activity 471
Hepatoma
chronic schistosomiasis mansoni in carcinogen-treated mice 307
Heterologous tumor transplant
lymphoma induction 447
Histochemistry
glycosaminoglycans in salivary gland tumor 19
hepatic changes induced by endotoxin 269
Homotransplantation
lymphoma in hamster 1111
Hyaline droplet
in adrenal, rat 831
Hyperbaric oxygen
myocardial lesions of hemorrhagic shock, effect on 341
toxic effect on tissue-culture cells 243
Hypersensitivity
granuloma formation around schistosome eggs 735
Hypertension
aortic intima, early effect 721

Immunity
homotransplantable lymphoma 1111
Immunofluorescence
atherogenesis, study of 373
Immunopathology
testicular injury induced by cadmium chloride 191
Inclusion bodies
mitochondria of human liver 101
Infection, cytomegalovirus
cortisone effect 1001
Infection, staphylococcal
polyvalent antitoxin, effect of, on renal lesions 913
Infiltration
in atherogenesis 373
Intestine
bacterial invasion in Whipple's disease 225
EDIM virus infection in mouse 39
mucosa in salmonella infection 137
Shigella flexneri infection 259
Intima, aortic
hypertension, effect of 721

Kernicterus
vascular permeability 69
Kidney
in acute rheumatic fever 1045
glomerulus in amyloidosis 869
nephron repair following mercuric chloride injury 405
staphylococcal infection, antitoxin against 913
Kupffer cell
cortisone effect in hepatitis 163
disruption during systemic anaphylaxis 483, 505

Leukemia
guinea pig 1135, 1153, 1161
virus adsorption on blood cells 1161
Liver
acid *p*-nitrophenylphosphatase in systemic anaphylaxis 483
acid phosphatase activity in copper loading 471
cortisone effect in hepatitis 163
E. coli endotoxin effect on giant cells 855
endotoxin-induced changes 269
Group A streptococci 351
matrix inclusion bodies in mitochondria 101
recovery from dietary cirrhosis 929, 959
schistosomiasis mansoni and hepatoma 307
Lung
aspergillosis 769
rat fed *Cortalaria spectabilis* seeds 1031
Lymphocyte
necrosis (Gumboro disease) 527
Lymphoma
induction by heterologous tumor transplant 447
macrophage in immunity to homograft 1111
in mouse 629
Lysosomes
in Sertoli cells 1

Macrophage
in homografted lymphoma 1111
Mammals, exotic
vasa vasorum, abnormalities 591
Mast cells
rat lung 1031
Matrix inclusion bodies
mitochondria of human liver 101

Melanoma, amelanotic
heterologous transplantation and lymphoma induction 447
Membrane, elastic
coronary artery, copper-deficient swine 117
Mercuric chloride
nephron, injury to 405
Methylandrostenediol
adrenal, effect on 831
Mineralization
tissue, human and bovine, in vitro 621
Mink
Chediak-Higashi syndrome 553
Mitochondria
liver, human; inclusion bodies 101
Monkey
epidermal pox disease 431
gastric shigellosis 259
Mouse
cytomegalovirus infection; cortisone effect 1001
EDIM virus infection 39
endotoxin-induced hepatic changes 269
hepatitis; cortisone effect 163
intestinal epithelium 39
systemic anaphylaxis 483, 505
virus-induced lymphoma 629
Mucosa, intestinal
salmonella infection 137
Mural thrombi
aortic graft 1013
Muscle, skeletal
Vitamin E deficiency 815
Muscle, smooth, gastrointestinal tract
ceroid 287
Myocardium
Antischkow cell 1063
lesions of hemorrhagic shock 341

Neoplasm
dysgerminoma 639
fibroadenoma, mammary 663
Nephron
repair following mercuric chloride injury 405
***p*-Nitrophenylphosphatase, acid**—*See* acid *p*-nitrophenylphosphatase
Nucleolus
alterations induced by acridine orange and profiavine 323

Organization
mural thrombi in aortic grafts 1013
thrombi in carotid arteries 681
Ouabain
cerebral cortex, rat, effect on 573
Ovary
dysgerminoma, estrogen in 639

Oxygen, hyperbaric
myocardial lesions of hemorrhagic shock, effect on 341
toxic effect on tissue-culture cells 243

Pancreas
alloxan pretreatment as protection against radiation 207
reovirus pancreatitis 387
Permeability
vessels, cerebral, in kernicterus 69
Phosphatase, acid
activity in copper-loaded liver, rat 471
Pituitary
tumor, transplantable, induced by ^{211}At 601
Plasma
acid *p*-nitrophenylphosphatase in systemic anaphylaxis 505
Platelet
thrombus, mural, in carotid artery 681
Pox virus
epidermal disease in monkey 431
Profiavine
nucleolar alterations, production of 323
Pulmonary aspergillosis 769

Rabbit
Group A streptococci, extracellular products of 351
skeletal muscle and Vitamin E deficiency 815
vena cava 789
Radiation
effect in pancreas protected by pretreatment with alloxan 207
Rat
adrenal 831
cerebral cortex; ouabain effect 573
copper-loaded liver; acid phosphatase activity 471
endotoxin shock and heparin effect 61
hypertension 721
lung 1031
pituitary tumor 601
seminiferous epithelium 1
testis; cadmium chloride injury 191
Regeneration
skeletal muscle, rabbit 815
Reovirus
pancreatitis 387
Resolution
thrombi in carotid arteries 681
Rheumatic fever
renal lesions 1045

Salivary gland tumor
glycosaminoglycan 19
Salmonella typhimurium
intestinal mucosa, effect on 137

Schistosoma mansoni
granuloma formation 735
hepatoma in carcinogen-treated mice 307
inhibition of granuloma formation 757
Seminiferous epithelium
Sertoli cell lysosomes 1
Sensitivity
schistosome eggs 735
Sertoli cell
lysosomal activity 1
Shigellosis
gastrointestinal tract, monkey 259
Shock, endotoxin
heparin effect 61
Shock, hemorrhagic
myocardial lesions and hyperbaric oxygen effect 341
Skin
epidermal pox disease of monkey 431
Smooth muscle, gastrointestinal
ceroid 287
Spleen
Gumboro disease 527
Staphylococcus aureus
polyvalent antitoxin, effect of, on renal lesions 913
Streptococcus, Group A
extracellular products; organ lesions in rabbit 351
Swine
cardiovascular effects of copper deficiency 117
carotid artery thrombus 681
Synaptic terminal
tumor pressure effect 1093

Testis
cadmium chloride injury 191
seminiferous epithelium, in rat 1
Thai-Lao ethnic group
ceroid in gastrointestinal smooth muscle 287
Thrombosis
in atherogenesis 373
Thrombus
aortic graft 1013
carotid artery wall, swine 681
Thymectomy
inhibition of granuloma 757
Thymus
Gumboro disease 527
Tissue
acid *p*-nitrophenylphosphatase in systemic anaphylaxis 505
mineralization in vitro 621
Tissue-culture cells
toxic effect of hyperbaric oxygen 243
Toxin, staphylococcal 913
Transplantation
lymphoma in hamster 1111
pituitary tumor, ^{211}At-induced 601
tumor 447
Tumor
brain; pressure effect 1093
heterologous transplantation 447
pituitary 601
salivary gland 19
Tumor, Burkitt's 629
Tween 80
corneal edema 977

Vacuole
in adrenal, rat 831
Vasa vasorum
abnormalities of, in exotic mammals and birds 591
Vascular permeability
kernicterus, experimental 69
Vena cava
constriction 789
Virus
epidermal pox disease of monkey 431
epizootic diarrhea in infant mice 39
Gumboro disease 527
leukemia in guinea pig 1135, 1153, 1161
lymphoma induction in mouse 629
Vitamin E
deficiency and skeletal muscle regeneration 815

Whipple's disease 225

INDEX OF AUTHORS

Adams, W. R., and Kraft, L. M. Electron-microscopic study of the intestinal epithelium of mice infected with the agent of epizootic diarrhea of infant mice (EDIM virus). (July) 39
American Association of Pathologists and Bacteriologists: business meeting. (August) 301

Barnes, G. W. See Gupta, Barnes, and Skelton (Aug.) 191
Bentwich, Z. See Zeiri, Bentwich, Boss, Ginsburg, and Harris (Sept.) 351
Boss, J. H. See Zeiri, Bentwich, Boss, Ginsburg, and Harris (Sept.) 351
Butcher, W. I. See Casey, Woodruff, and Butcher (Sept.) 431
Butler, J. J., Szakacs, A., and Sinkovics, J. G. Virus-induced murine lymphoma resembling Burkitt's tumor. (Oct.) 629

Campbell, L. V., Jr., and Gilbert, E. F. Experimental giant-cell transformation in the liver induced by *E. coli* endotoxin. (Nov.) 855
Carnes, W. H. See Waisman and Carnes (July) 117
Carstairs, K. C. See Woolf and Carstairs (Sept.) 373
Carter, R. L. See Gershon, Carter, and Lane (Dec.) 1111
Casey, H. W., Woodruff, J. M., and Butcher, W. I. Electron microscopy of a benign epidermal pox disease of rhesus monkeys. (Sept.) 431
Chen, H., Lin, C.-S., and Lien I-N. Vascular permeability in experimental kernicterus. An electron-microscopic study of the blood-brain barrier. (July) 69
Cheville, N. F. Studies on the pathogenesis of Gumboro disease in the bursa of Fabricius, spleen, and thymus of the chicken. (Oct.) 527
Chittayasothorn, K. See Nye and Chittayasothorn (Aug.) 287
Churg, J. See Grishman, Cohen, Salomon, and Churg (Dec.) 1045
Cohen, A. S. See Shirahama and Cohen (Nov.) 869
Cohen, S. See Grishman, Cohen, Salomon, and Churg (Dec.) 1045
Cornog, J. L., Jr., Gonatas, N. K., and Feierman, J. R. Effects of intracerebral injection of ouabain on the fine structure of rat cerebral cortex. (Oct.) 573
Covington, H. See Ruffolo and Covington (July) 101
Cowan, D. F. Abnormalities of vasa vasorum in exotic mammals and birds. (Oct.) .. 591
Cowan, R. B. T. See Warren, Domingo, and Cowan (Nov.) 735
Cuppage, F. E., and Tate, A. Repair of the nephron following injury with mercuric chloride. (Sept.) 405

Dennison, S. M. See Still, Ghani, and Dennison (Dec.) 1013
Dobbins, W. O. III, and Ruffin, J. M. A light- and electron-microscopic study of bacterial invasion in Whipple's disease. (Aug.) 225
Domingo, E. O. See Warren, Domingo, and Cowan (Nov.) 735
——, and Warren, K. S. The inhibition of granuloma formation around *Schistosoma mansoni* eggs. II. Thymectomy. (Nov.) 757
——, ——, and Stenger, R. J. Increased incidence of hepatoma in mice with chronic schistosomiasis mansoni treated with a carcinogen. (Sept.) 307

Epstein, S. M., Verney, E., Miale, T. D., and Sidransky, H. Studies on the pathogenesis of experimental pulmonary aspergillosis. (Nov.) 769

Feierman, J. R. See Cornog, Gonatas, and Feierman (Oct.) 573
Formal, S. B. See Kent, Formal, LaBrec, Sprinz, and Maenza (Aug.) 259
Foster, E. A. Tissue injury by toxins in experimental staphylococcal infections. Effect of polyvalent antitoxin on developing renal lesions. (Nov.) 913

Gehrke, J. See Henson, Smith, Gehrke, and Neapolitan (Dec.) 1001
Gershon, R. K., Carter, R. L., and Lane, N. J. Studies on homotransplantable lymphomas in hamsters. IV. Observations on macrophages in the expression of tumor immunity. (Dec.) 1111
Ghani, A. R. See Still, Ghani, and Dennison (Dec.) 1013
Gilbert, E. F. See Campbell and Gilbert (Nov.) 855
Gillund, T. D. See Kay, Gillund, and Heath (Dec.) 1031
Ginsburg, I. See Zeiri, Bentwich, Boss, Ginsburg, and Harris (Sept.) 351
Gonatas, N. K. See Cornog, Gonatas, and Feierman (Oct.) 573
Gorham, J. R. See Padgett, Reiquam, Gorham, Henson, and O'Mary (Oct.) 553
Greene, H. S. N., and Harvey, E. K. The induction of lymphomas in hamsters by heterologous tumor transplants. (Oct.) 447
Greider, M. H. See Murad, Greider, and Scarpelli (Nov.) 663
Grishman, E., Cohen, S., Salomon, M. I., and Churg, J. Renal lesions in acute rheumatic fever. (Dec.) 1045
Gupta, R. K., Barnes, G. W., and Skelton, F. R. Light-microscopic and immunopathologic observations on cadmium chloride-induced injury in mature rat testis. (Aug.) 191

Hackel, D. B. See Ratliff, Hackel, and Mikat (Sept.) 341
Hall, B. V. See Van Vleet, Hall, and Simon (Nov.) 815
Harris, T. N. See Zeiri, Bentwich, Boss, Ginsburg, and Harris (Sept.) 351
Hartroft, W. S. See Takada, Porta, and Hartroft (Dec.) 929, 959
Harvey, E. K. See Greene and Harvey (Oct.) 447
Heath, D. See Kay, Gillund, and Heath (Dec.) 1031
Henson, D., Smith, R. D., Gehrke, J., and Neapolitan, C. Effect of cortisone on nonfatal mouse cytomegalovirus infection. (Dec.) 1001
Henson, J. B. See Padgett, Reiquam, Gorham, Henson, and O'Mary (Oct.) 553
Hirano, T. See Ruebner, Hirano, and Slusser (Aug.) 163
Hovig, T. See Jørgensen, Rowsell, Hovig, and Mustard (Nov.) 681

Jørgensen, L., Rowsell, H. C., Hovig, T., and Mustard, J. F. Resolution and organization of platelet-rich mural thrombi in carotid arteries of swine. (Nov.) 681
Jungeblut, C. W., and Opler, S. R. In-vitro adsorption of cavian leukemia virus on blood cells. (Dec.) 1161
——, and ——. On the pathogenesis of cavian leukemia. (Dec.) 1153

Kay, J. M., Gillund, T. D., and Heath, D. Mast cells in the lungs of rats fed on *Crotalaria spectabilis* seeds. (Dec.) 1031
Kent, T. H., Formal, S. B., LaBrec, E. H., Sprinz, H., and Maenza, R. M. Gastric shigellosis in rhesus monkeys. (Aug.) 259
Kingsley, W. B. See Lynn, Varon, Kingsley, and Martin (Oct.) 639
Klintworth, G. K. See Quiroga and Klintworth (Dec.) 977
Kraft, L. M. See Adams and Kraft (July) 39

LaBrec, E. H. See Kent, Formal, LaBrec, Sprinz, and Maenza (Aug.) 259
Lane, N. J. See Gershon, Carter, and Lane (Dec.) 1111
Lazarus, S. S. See Volk, Wellmann, and Lazarus (Aug.) 207
Levine, A. J., and Skelton, F. R. A light and electron microscopic study of hyaline droplet and vacuole formation in the adrenal glands of rats treated with methylandrostenediol. (Nov.) 831
Levy, E., and Ruebner, B. H. Hepatic changes produced by a single dose of endotoxin in the mouse. Light microscopy and histochemistry. (Aug.) 269
Lien, I-N. See Chen, Lin, and Lien (July) 69
Lin, C.-S. See Chen, Lin, and Lien (July) 69
Lindquist, R. R. Studies on the pathogenesis of hepatolenticular degeneration. I. Acid phosphatase activity in copper-loaded rat livers. (Oct.) 471
Lynn, J. A., Varon, H. H., Kingsley, W. B., and Martin, J. H. Ultrastructural and biochemical studies of estrogen secretory capacity of a "nonfunctional" ovarian neoplasm (dysgerminoma). (Oct.) 639

McKay, D. G. See Margaretten, McKay, and Phillips (July) 61
Maenza, R. M. See Kent, Formal, LaBrec, Sprinz, and Maenza (Aug.) 259
Margaretten, W., McKay, D. G., and Phillips, L. L. The effect of heparin on endotoxin shock in the rat. (July) 61
Martin, J. H. See Lynn, Varon, Kingsley, and Martin (Oct.) 639
Miale, T. D. See Epstein, Verney, Miale, and Sidransky (Nov.) 769
Mikat, E. See Ratliff, Hackel, and Mikat (Sept.) 341
Montgomery, P. O'B. See Reynolds and Montgomery (Sept.) 323
Mori, T. See Ueda and Mori (Oct.) 601
Murad, T. M., Greider, M. H., and Scarpelli, D. G. The ultrastructure of human mammary fibroadenoma. (Nov.) 663
Mustard, J. F. See Jørgensen, Rowsell, Hovig, and Mustard (Nov.) 681

Neapolitan, C. See Henson, Smith, Gehrke, and Neapolitan (Dec.) 1001
Nishihara, H. See Noguchi, Strasser, and Nishihara (Aug.) 243
Noguchi, T. T., Strasser, F. F., and Nishihara, H. Hyperbaric oxygen toxicity on tissue-culture cells. I. Light-microscopic study. (Aug.) 243
Nye, S. W., and Chittayasothorn, K. Ceroid in the gastrointestinal smooth muscle of the Thai-Lao ethnic group. (Aug.) 287

O'Mary, C. C. See Padgett, Reiquam, Gorham, Henson, and O'Mary (Oct.) 553
Opler, S. R. Pathology of cavian viral leukemia. (Dec.) 1135
——. See Jungeblut and Opler (Dec.) 1153, 1161

Padgett, G. A., Reiquam, C. W., Gorham, J. R., Henson, J. B., and O'Mary, C. C. Comparative studies of the Chediak-Higashi syndrome. Pathology. (Oct.) .. 553
Papadimitriou, J. M., and Walters, M. N-I. Studies on the exocrine pancreas. II. Ultrastructural investigation of reovirus pancreatitis. (Sept.) 387
Phillips, L. L. See Margaretten, McKay, and Phillips (July) 61
Pienaar, J. G., and Price, H. M. Ultrastructure and origin of the Anitschkow cell. (Dec.) 1063
Porta, E. A. See Takada, Porta, and Hartroft (Dec.) 929, 959
Price, H. M. See Pienaar and Price (Dec.) 1063

Quintarelli, G., and Robinson, L. The glycosaminoglycans of salivary gland tumors. A histochemical characterization and a critical evaluation. (July) 19
Quiroga, R., and Klintworth, G. K. The pathogenesis of corneal edema induced by Tween 80. (Dec.) 977

Ramsey, H. J. Altered synaptic terminals in cortex near tumor. (Dec.) 1093
Ratliff, N. B., Hackel, D. B., and Mikat, E. The effect of hyperbaric oxygen on the myocardial lesions of hemorrhagic shock in dogs. (Sept.) 341
Reddy, K. J., and Svoboda, D. J. Lysosomal activity in Sertoli cells of normal and degenerating seminiferous epithelium of rat testes. An ultrastructural and biochemical study. (July) 1
Reiquam, C. W. See Padgett, Reiquam, Gorham, Henson, and O'Mary (Oct.) 553
Reynolds, R. C., and Montgomery, P. O'B. Nucleolar pathology produced by acridine orange and proflavine. (Sept.) 323
Robinson, L. See Quintarelli and Robinson (July) 19
Rowsell, H. C. See Jørgensen, Rowsell, Hovig, and Mustard (Nov.) 681
Ruebner, B. H. See Levy and Ruebner (Aug.) 269
——, Hirano, T., and Slusser, R. J. Electron microscopy of the hepatocellular and Kupffer-cell lesions of mouse hepatitis, with particular reference to the effect of cortisone. (Aug.) 163
Ruffin, J. M. See Dobbins and Ruffin (Aug.) 225
Ruffolo, R., and Covington, H. Matrix inclusion bodies in the mitochondria of the human liver. Evidence of hepatocellular injury. (July) 101

Salomon, M. I. See Grishman, Cohen, Salomon, and Churg (Dec.) 1045

Santos-Buch, C. A. See Treadwell and Santos-Buch (Oct.) 483
——, and Treadwell, P. E. Disruption of Kupffer cells during systemic anaphylaxis in the mouse. II. Changes in tissue and plasma heat- and formaldehyde-stable acid *p*-nitrophenylphosphatase. (Oct.) 505
Scarpelli, D. G. See Murad, Greider, and Scarpelli (Nov.) 663
Shirahama, T., and Cohen, A. S. Fine structure of the glomerulus in human and experimental renal amyloidosis. (Nov.) 869
Sidransky, H. See Epstein, Verney, Miale, and Sidransky (Nov.) 769
Simon, J. See Van Vleet, Hall, and Simon (Nov.) 815
Sinkovics, J. G. See Butler, Szakacs, and Sinkovics (Oct.) 629
Skelton, F. R. See Gupta, Barnes, and Skelton (Aug.) 191
——. See Levine and Skelton (Nov.) 831
Slusser, R. J. See Ruebner, Hirano, and Slusser (Aug.) 163
Smith, R. D. See Henson, Smith, Gehrke, and Neapolitan (Dec.) 1001
Spaet, T. H. See Ts'ao and Spaet (Nov.) 789
Sprinz, H. See Kent, Formal, LaBrec, Sprinz, and Maenza (Aug.) 259
——. See Takeuchi and Sprinz (July) 137
Stenger, R. J. See Domingo, Warren, and Stenger (Sept.) 307
Still, W. J. S. The early effect of hypertension on the aortic intima of the rat. An electron microscopic study. (Nov.) 721
——, Ghani, A. R., and Dennison, S. M. The organization of isolated mural thrombi in aortic grafts. An electron microscopic study. (Dec.) 1013
Strasser, F. F. See Noguchi, Strasser, and Nishihara (Aug.) 243
Svoboda, D. J. See Reddy and Svoboda (July) 1
Szakacs, A. See Butler, Szakacs, and Sinkovics (Oct.) 629

Takada, A., Porta, E. A., and Hartroft, W. S. The recovery of experimental dietary cirrhosis. I. Functional and structural features. (Dec.) 929
——, ——, and ——. The recovery of experimental dietary cirrhosis. II. Turnover changes of hepatic cells and collagen. (Dec.) 959
Takeuchi, A., and Sprinz, H. Electron-microscope studies of experimental salmonella infection in the preconditioned guinea pig. II. Response of the intestinal mucosa to the invasion by *Salmonella typhimurium*. (July) 137
Tate, A. See Cuppage and Tate (Sept.) 405
Thomas, W. C., Jr., and Tomita, A. Mineralization of human and bovine tissue in vitro. (Oct.) 621
Tomita, A. See Thomas and Tomita (Oct.) 621
Treadwell, P. E. See Santos-Buch and Treadwell (Oct.) 505
——, and Santos-Buch, C. A. Disruption of Kupffer cells during systemic anaphylaxis in the mouse. I. Properties and distribution of heat- and formaldehyde-stable liver acid *p*-nitrophenylphosphatase. (Oct.) 483
Ts'ao, C., and Spaet, T. H. Ultramicroscopic changes in the rabbit inferior vena cava following partial constriction. (Nov.) 789

Ueda, G., and Mori, T. Astatine-211-induced transplantable pituitary tumor in the rat with a brief analytic review of cell types of pituitary tumors. (Oct.) 601

Van Vleet, J. F., Hall, B. V., and Simon, J. Vitamin E deficiency: A sequential study by means of light and electron microscopy of the alterations occurring in regeneration of skeletal muscle of affected weanling rabbits. (Nov.) 815
Varon, H. H. See Lynn, Varon, Kingsley, and Martin (Oct.) 639
Verney, E. See Epstein, Verney, Miale, and Sidransky (Nov.) 769
Volk, B. W., Wellmann, K. F., and Lazarus, S. S. Protection of canine pancreatic ultrastructure against radiation by pretreatment with alloxan. (Aug.) 207

Waisman, J., and Carnes, W. H. Cardiovascular studies on copper-deficient swine. X. The fine structure of the defective elastic membranes. (July) 117
Walters, M. N-I. See Papadimitriou and Walters (Sept.) 387
Warren, K. S. See Domingo and Warren (Nov.) 757

——. See Domingo, Warren, and Stenger (Sept.) 307
——, **Domingo, E. O., and Cowan, R. B. T.** Granuloma formation around schistosome eggs as a manifestation of delayed hypersensitivity. (Nov.) 735
Wellmann, K. F. See Volk, Wellmann, and Lazarus (Aug.) 207
Woodruff, J. M. See Casey, Woodruff, and Butcher (Sept.) 431
Woolf, N., and Carstairs, K. C. Infiltration and thrombosis in atherogenesis. A study using immunofluorescent techniques. (Sept.) 373

Zeiri, N., Bentwich, Z., Boss, J. H., Ginsburg, I., and Harris, T. N. Organ lesions produced in rabbits by Group A streptococci and some of their extracellular products. (Sept.) 351